Solar Trailer Battery Array Negative "start"							
Battery Bank left Battery							
<u>#</u>	<u>Terminal</u> <u>left</u>	<u>Terminal</u> <u>right</u>	<u>bus bar</u> left	<u>bus bar</u> <u>right</u>			
<u>″</u>	neg	pos	<u>юң</u>	b			
2	neg	pos	a	b			
3	neg	pos	a	b			
4	neg	pos	a	b			
5	neg	pos	a	b			
6	neg	pos	a	b			
7	pos	neg	a	c			
8	pos	neg	a	c			
9	pos	neg	a	c			
10	pos	neg	a	C			
11	pos	neg	a	C			
12	pos	neg	a	C			
13	neg	pos	d	C			
14	neg	pos	d	C			
15	neg	pos	d	С			
16	neg	pos	d	C			
17	neg	pos	d	С			
18	neg	pos	d	С			
19	pos	neg	d	е			
20	pos	neg	d	е			
21	pos	neg	d	е			
		Ŭ	^	۸			
			bus bar	bus bar			
			connected	connected			
Bat	ery Bank r	ight	via	via			
			cable	cable			
			V	v			
	<u>Terminal</u>	<u>Terminal</u>	<u>bus bar</u>	<u>bus bar</u>			
<u>#</u>	<u>left</u>	<u>right</u>	<u>left</u>	<u>right</u>			
22	pos	neg	d	е			
23	pos	neg	d	е			
24	pos	neg	d	е			
25	neg	pos	f	е			
26	neg	pos	f	е			
27	neg	pos	f	е			
28	neg	pos	f	е			
29	neg	pos	f	е			
30	neg	pos	f	е			
31	pos	neg	f	g			
32	pos	neg	f	g			
33	pos	neg	f	g			
34	pos	neg	f	g			
35	pos	neg	f	g			
36	pos	neg	f	g			

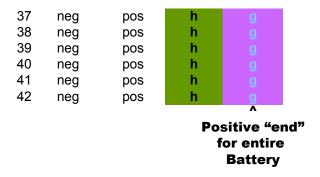
Pictured is a single "module" from a Nis Each is about 8 volts DC at full charge. Half of the cells have a positive (red) te The center terminal is for monitoring A Leaf had 48 of these modules. The trailer has 42 modules For weight and balance considerations,

6 modules are wired in parallel to produ We'll call that set of 6 a "Set" So there are 7 Sets. The Sets are connected in series So 2 Sets connected, and measured frc So all 7 sets, connected in series, = 56 In use, this sits at "essentially" a target

Let's trace some expected voltages, as:

Bus bar a	to	Bus bar b	8 VDC
		С	16
		d	24
		е	32
		f	40
		g	48
		h	56

Each module has 4 mounting holes at t 4 threaded rods run from one end to the This holds batteries together (as do the But most of the strength of each Bank is On the up-facing side where the termina



san leaf battery (generation1, 2011-15)

rminal on the left, and the other half are opposite



the trailer has the 42 divided into 2 "Banks" of 21 each.

ice more current, but still at 8 volts

om the negative "start" of the first one to the positive "end" of the second one = 16 VDC VDC voltage of 48 VDC

suming all modules are charged to exactly 8 VDC

he corners.

e other of all 4 holes of all 21 batteries each Bank.

copper bus strips)

s provided by the external plywood case.

als and bus strips are visible are 2 plywood strips which, if removed, would allow the stacked modules

to be slid out.